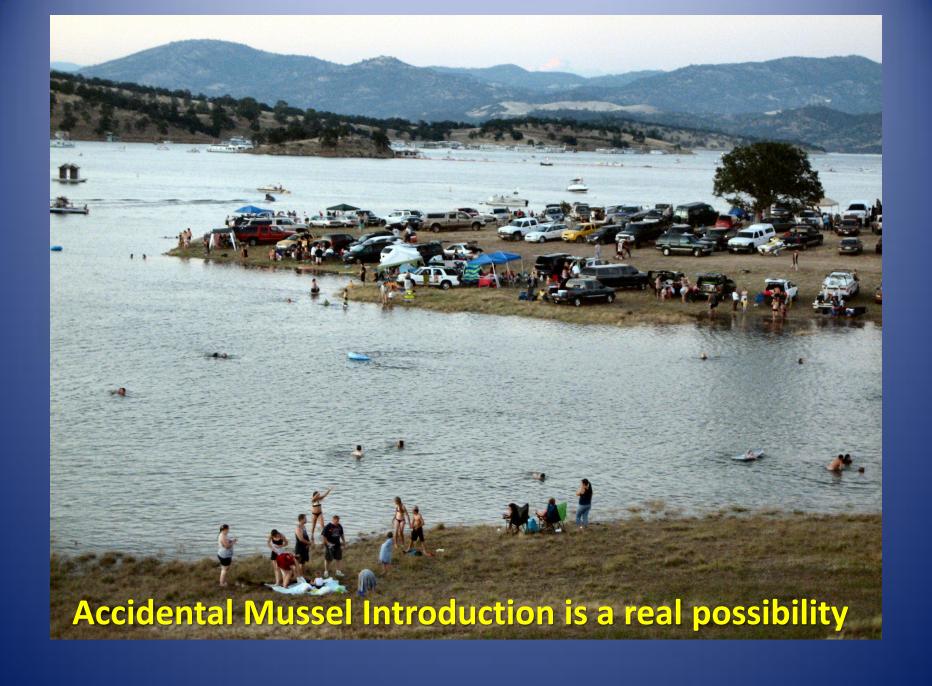


- **Upstream & downstream waters**
- 458 miles of irrigation canals, irrigating approx. 210,000 acres of farmland











In 2008, after the discovery of Quagga Mussels in southern CA waterways & Zebra Mussels in San Justo Reservoir, DPRA developed a Mussel Threat Action Plan.

- Staff began attending Mussel workshops & watercraft inspection training
- Posters placed throughout the Recreation Area
- Mussel flyer & links added to website
- Mussel handouts & stickers given to customers with receipts & reservation confirmations
- Marina concessionaire also began distributing Mussel information to their customers





- Random & suspect vessel inspections initiated
- Dedicated Mussel Spot Inspection Days held in 2009 & 2010

- Staff began screening interviews regarding recent history of vessel use
- Boaters informed of clean, drained & dry requirement prior to launch



In 2008 DPRA also began Artificial Substrate Mussel Monitoring Program

- Substrates throughout Lake
- Checked monthly
- Status reported to DFG

 3 artificial substrates currently still in place





- Submerged & floating cables, equipment, buoys, dock floats & vessels are now regularly inspected for mussels during routine maintenance
- Lots of aquatic plant & animal life found
- No Mussels found!



All private & concessionaire houseboats must comply with DPRA Regulations

Mussel inspection is now a part of all Don Pedro houseboat inspections

Mussel information is also now on the reverse side of

Dispersed Area Camping & Navigation Map

Dispersed Area / Boat-in Camping Receipt Keep this receipt at your Dispersed Area Campsite at all times! Last Name: Today's Date: Initials # Day Use Veh. = Departure Date # ____ Day Use Boat = _ # Lake Camp Night =

DON'T MOVE A MUSSEL!

Total \$ Paid =

Quagga/zebra mussels

DON'T LET THEM RIDE WITH YOU! Watercraft and equipment can move

quagga and zebra mussels from infested waterbodies to uninfested waterbodies. If spread, these mussels can:

- Encrust boat hulls, clog cooling systems, jam
- Alter aquatic ecosystems, resulting in fewer native species and sportfish
- Litter beaches with sharp, foul smelling shells



INVASIVE SPECIES

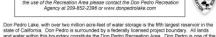
You can prevent the spread of quagga and zebra mussels using this checklist every time you exit a waterbody:

- ☑ Inspect all watercraft and
- Clean any visible mud, plants, fish or animals from watercraft and equipment
- ☑ Drain all water, including from lower outboard unit, ballast, live-well, buckets, etc.
- ☑ Dry all areas
- ☑ Dispose of debris and live



DON PEDRO RECREATION AREA DISPERSED AREA / PARTIAL & ABRIDGED REGULATIONS

For complete copies of all regulations and other information pertaining to the use of the Recreation Area please contact the Don Pedro Recreation



few lakes in the state where lakeshore camping along undeveloped shoreline is still permitted
Abiding by all Regulations and adhering to safe, courteous and sanitary practices will not only protect the surrounding environment, but will also help to ensure that this privilege of Lakeshore camping at Don Pedro can continue . Undeveloped Recreation Area lands and water are considered the "Dispersed Area"

- Permitted camping on Dispersed Area Recreation Area lands outside of the Fleming, Blue Oaks and Moccasin Campgrounds is "Lakeshore Camping".
- . Lakeshore Camping is prohibited in developed areas, below private homes, near roadways A current Lakeshore camping permit is required for every Lakeshore campsite, 8 persons
- maximum per permit.
 All applicable camping, vehicle and vessel permit use fees shall be paid at Recreation Area
- entrance stations prior to setting up campsite.

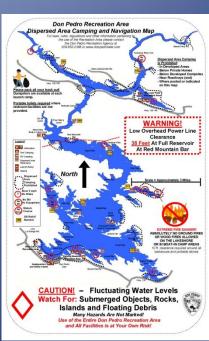
 Motorized vehicles are prohibited in the Dispersed Area
- Quiet time is 10 pm to 7 am, respect your neighbors and keep your noise level to a minimum No person shall occupy a campsite for more than 14 consecutive nights.

 Portable furnishings, structures and vessels shall not to be left unattended overnight.
- Absolutely no ground fires or wood fires are permitted in the Dispersed Area! 10 foot clearance required around all portable camp stoves, barbecues and any open flame
- Campsites shall be kept clean and free of all loose debris, trash and litter at all times.

 Before leaving the Dispersed Area, Campers shall remove all of their trash then dispose of it
- properly at developed Recreation Area dumpsters.

 Dogs shall be kept on a leash at all times and shall not be left unattended Dispersed Area restrooms shall only be used for their intended purpose.
- Do not tie vessels to floating restrooms for more than 15 minutes at a time and do not camp, jump, dive, swim or fish from them.
- . Do not dump trash, diapers or porta-potty contents in Dispersed Area restrooms.
- Do Not use the shoreline as a toilet!
- Self-contained portable toilets are required for all campsites that are not near restrooms.

 Porta-potty contents may be disposed of at campground dump stations and marina pump-out
- Keep off adjacent private property and any area posted "closed" or "no trespassing" . No person shall use any weapon, except for hunting or fishing purposes in accordance with applicable laws, within the Recreation Area.
- All target shooting and other weapon use is prohibited within the Recreation Area.
- Vessel operators shall comply with all applicable boating laws and regulatory markers.
 Mooring your vessel to, moving or damaging any regulatory buoy is a violation of the law
- Don Pedro Lake is a reservoir, the lake level is always changing and many hazards are not marked, always watch for submerged objects, rocks, islands, floating debris and reduce your vessel speed when operating in unfamiliar areas and at night!





Course Completion Certificate

Watercraft Inspection and Decontamination Training for Zebra/Quagga Mussels





Has successfully completed a 2.5 hour course on "Inspection and Decontamination of Watercraft for zebra/quagga mussels". Presented by the Pacific States Marine Fisheries Commission, United States Fish and Wildlife Service and the 100th Meridian Initative and its State and Federal partners and is

Certified as:

Watercraft and Equipment Inspector

Location: _____ Don Pedro Reservoir, CA

Date: November 6, 2012

Presented by: William Trock

William J. Zook, PSMFC ANS Training Coordinator





In November 2012 all DPRA permanent Campground & Lake Operations Staff completed Level 1 Watercraft & Equipment Inspector training.



Don Pedro is open 365 days a year, 24 hours a day

- Operate with self-service pay stations much of the year
- Small staff & un-staffed entrance stations limits our ability to intercept <u>all</u> vessels for Mussel Screening
- So, in 2012 with assistance from CDFW Central Region, Mussel Program Scientist, Kelley Aubushon, we initiated a Mussel Self-Inspection program

Authority:

- CA Fish & Game Code
 Sections 2301 & 2302
- Requires Mussel prevention program
- DPRA Regulations Sections
 2.2.1 & 2.2.3
- Requires permit & display of permit to use Recreation Area
- Mussel Self-Inspection
 Permits are required for all vessel launches
- Permit must be displayed on tow vehicle dashboard
- Annual cost: \$0.15/Form,
 Approx. 27,000 forms used
 per year = \$4,050

Don Pedro Recreation Agency Quagga & Zebra Mussel Prevention Program

MUSSEL SELF-INSPECTION LAUNCH CERTIFICATION PERMIT

Display Permit on Dashboard When Launching

CA Fish & Game Code Sections 2301 & 2302 DPRA Regulations and Ordinances Sections 2.2.1 & 2.2.3



Answer all questions below, complete, sign & date this Permit and place it on the dashboard of your vehicle before launching your vessel.

1.	and <u>drained</u> of all water, including all bilge areas, fresh water cooling systems, lower outboard units, ballast tanks, live-wells, buckets, etc. and completely <u>dry</u> ? Yes <u>No</u>								
	If you answered <u>No</u> to question #1, <u>you may not launch your vessel</u> . Your vessel must be cleaned, drained and completely dry before it will be permitted to launch. Do not clean or drain your vessel by the lake or at the launch ramp.								
2.	If you answered Yes to question #1, has your vessel been in any of the infested waters listed on the back page of this form within the last 30 days? Yes No								
	<u>If you answered</u> <u>No</u> to question #2, <u>you are ready to launch</u> , complete, sign and date this Launch Certification Permit and display it on the dashboard of your vehicle.								
3.	If you answered Yes to question #2, was your boat and trailer thoroughly cleaned and allowed to completely dry for at least 30 days since you last launched, or has it been professionally decontaminated? (Thoroughly cleaned requires removal of all dirt and organic material from the boat, flushing and draining of all live wells, bilge areas, ballast tanks and fresh water cooling systems. Professional decontamination requires thorough cleaning and flushing with minimum 140° F water.)								
	If you answered Yes to question #3, you are ready to launch, complete, sign and date this Launch Certification Permit and display it on the dashboard of your vehicle.								
	If you answered No to question #3, you may not launch your vessel at Don Pedro Lake. Your vessel must be professionally decontaminated or thoroughly cleaned and allowed to dry for at least 30 days before it will be permitted to launch at Don Pedro Lake.								
Quagga and Zebra Mussels Pose a Threat to Don Pedro Lake! Mussels in the lake could disrupt the food chain and fishing, foul docks and ramps, encrust vessels, clog engines, litter the shoreline with sharp and smelly shells, clog water distribution systems and could even result in complete closure of the lake.									
la	I affirm that my vessel does not threaten Don Pedro Lake with Quagga or Zebra mussels.								
PI	Please check one: My vessel is clean, drained and dry and has not been in any infested waters within the last 30 days.								
	☐ My vessel has been thoroughly cleaned & completely dry for at least 30 days since last launched, or has been professionally decontaminated.								
Ve	Vessel Registration Numbers:								
Si	Signature: Date:								
	Thank You for helping to protect Don Pedro Lake!								

Mussel-Infested Waters in the US

List last updated 12/5/2011 - Source USGS Website:

http://fl.biology.usgs.gov/Nonindigenous Species/Zebra mussel distribution/Lakes by county/lakes by county.html

California

Anaheim Lake - Orange Co. Irvine Lake - Orange Co. Kraemer Basin - Orange Co. Rattlesnake Reservoir - Orange Co. Walnut Canyon Reservoir - Orange Co. Lake Matthews - Riverside Co. Lake Skinner - Riverside Co. San Justo Reservoir - San Benito Co. Cooper Basin Reservoir - San Bernadino Co. Lake Havasu - San Bernadino Co. Dixon Lake - San Diego Co. El Capitan Reservoir - San Diego Co. Lake Jennings - San Diego Co. Lake Miramar - San Diego Co. Lake Poway - San Diego Co. Lake Ramona - San Diego Co. Lower Otay Lake - San Diego Co. Murray Reservoir - San Diego Co. Olivenhain Reservoir - San Diego Co. San Vicente Reservoir - San Diego Co. Sweetwater Reservoir - San Diego Co. Colorado River & Aqueduct

Arizona

Lake Havasu - Mohave Co. Lake Mead - Mohave Co. Lake Mohave - Mohave Co. Topcock Marsh - Mohave Co. Mittry Lake - Yuma Co Colorado River Salt River

DON'T SPREAD INVASIVE SPECIES

You can prevent the spread of quagga and zebra mussels using this checklist every time you exit a waterbody:

- ✓ Inspect all watercraft and equipment
- Clean any visible mud, plants, fish or animals from watercraft and equipment
- Drain all water, including from lower outboard unit, ballast, live-well, buckets, etc.
- ☑ Dry all areas
- ☐ Dispose of debris and live bait in the trash



© California Department of Fish and Gar

<u>Nevada</u>

Lahontan Reservoir - Churchill/Lyon Co Lake Mead - Clark Co. Rye Patch Reservoir - Pershing Co. Colorado River

<u>Utah</u>

Electric Lake - Emery Co. Red Fleet Reservoir - Uintah Co. Sand Hollow Reservoir - Washington Co.

Colorado

Grand Lake - Grand Co.
Lake Granby - Grand Co.
Shadow Mountain Reservoir - Grand Co.
Willow Creek Reservoir - Grand Co.
Jumbo Lake - Logan Co.
Tarryall Reservoir - Park Co.
Pueblo Reservoir - Pueblo Co.

New Mexico

Lake Sumner - De Baca Co.

Texas

Lake Texoma - Grayson Co. Lake Ray Hubbard - Rockwall Co

Infested River & Lake Systems

Colorado River Mississippi River Missouri River Ohio River The Great Lakes

Ohio River
The Great Lakes
Trailered boats are
the primary way
that Quagga/Zebra
mussels are
introduced to
unconnected water

bodies.



Whenever you leave freshwater, take the following actions:

1. Inspect and clean vessel & trailer away from water body and launch ramp.

 Inspect all exposed surfaces of vessel and trailer. Feel ye or gritty spots. Young microscopic mussels that have settled like sandpaper. If you find any mussels, alert the Departms 866-440-9530

- Wash your vessel's hull, trailer, equipment, bilge, and ar with high-pressure, 140° F hot water which will kill the mus much as possible.
- 4. Thoroughly clean and dry all fishing and recreational equals. Keep your vessel dry for at least five days in warm, dry warmoist weather before launching into freshwater again.

For more information, visit: www.protectyourwaters.net

http://www.dfg.ca.gov/invas

Thank you for your cooperation The Don Pedro Recreation Agency (209) 852-2396. v

Other States with Infested

Waters
Alabama
Arkansas
Connecticut
Illinois
Indiana
Iowa
Kansas

Kentucky

Louisiana Maryland Massachusetts Michigan Minnesota Mississippi Missouri Nebraska New York North Dakota

North Dakota Ohio Oklahoma Pennsylvania Tennessee Vermont Virginia

West Virginia

Wisconsin

- Back side of Self-Inspection
 Permit lists infested Waters
- & additional Mussel
 prevention information &
 websites
- When entrance stations are staffed, forms are given to customers and they are instructed to complete, sign form & place on dashboard
- Link to form is also on DPRA website so customers can print form in advance of their visit

News & Announcements

JAN 01 ATTENTION BOATERS!

ATTENTION BOATERS! Don't Move A Mussel! Print and fill out your Mussel Self-Inspection Launch Certification Permit before you drive up to the lake and save time at the entrance station upon arrival.





When entrance stations are not staffed, Mussel Self-Inspection forms are stocked in self-service dispensers adjacent to self-registration pay stations



ATTENTION BOATERS!

Mussel Self-Inspection Permits are now required to launch your vessel at Don Pedro Lake

CA Fish & Game Code Sections 2301 & 2302 DPRA Regulations and Ordinances Sections 2.2.1 & 2.2.3

Please complete, sign and date this permit and display it on your dashboard. A new complete permit must be signed, dated and displayed on dashboard each time you launch.

Permit forms are available at the entrance station and at www.donpedrolake.com.



Thank You for your cooperation! Don Pedro Recreation Agency (209) 852-2396





While patrolling parking lots for fee compliance, staff also check for Mussel Self-Inspection permit compliance.

- When vehicles with boat trailers that have not completed Mussel Self-Inspection permits are found
- A blank Mussel Self-Inspection form along with a reminder notice is placed under the customer's windshield wiper

Pros:

- Mussel Self-Inspection Permit is mandatory for vessel launch
- Every boater receives the same Mussel prevention information
- Only feasible way to get the message out with small staff & large visitation

Cons:

- No real penalty for failure to comply with Mussel Self-Inspection Permit requirement
- Vessel is already on the water when non-compliance is discovered
- Honor system, relies on the honesty & cooperation of the public

Whats new?

- Water samples collected for water quality Risk of Establishment analysis on May 9th & 10th, 2013
- PH, DO & Temp. recorded
- CA & Salinity levels to be determined by lab



Date	Location	Depth	Hq	Temp. °C	Temp. °F	DO mg/L
5/9/13	Fleming Launch	15 ft.	7.26	18.8	66	3.4
5/9/13	Fleming Launch	50 ft.	6.92	13	55.4	3.8
5/10/13	Moccasin Launch	15 ft.	7.45	20	68	4.0
5/10/13	Moccasin Launch	50 ft.	6.48	14	57.2	5.0
5/10/13	Fleming WTP	200 ft.	6.33	11.7	53.1	3.5
5/10/13	Blue Oaks WTP	180 ft.	6.64	13.5	56.3	3.2



	pH (mean)	Temp. (mean) °C	DO (mean)
	6.94	15.2	3.8
Risk Ranking	Low	High	Low



- Issues permits to Rafters & Kayakers that boat the Wild
 & Scenic Tuolumne River
- Take-out is within the upper reach of Don Pedro Lake
- 3,135 Commercial & 1,062 Private Rafters in 2012
- Private Rafters pose potential risk of Mussel Introduction



 We have encouraged them to initiate their own Mussel Prevention Program

